3/4 GENERAL MATHEMATICS

Types of Data

Categorical Nominal - no order
Categorical Ordinal - have order
Numerical Discrete - how many?
Numerical Continuous - how much?

Data Displays

There are many forms of ways to display data. For categorical you can use...
- frequency table
- bar chart
- segmented bar cahrt

And for numerical data you can use...
- frequency table
- histogram
- dot plots
- stem and leaf plots

Log Scale

A **log scale** spreads out the countries with small populations and 'pulls in' the countries with huge populations.
If $\log_{10} x = b$ then $10^b = x$
A logarithmic transformation involves changing the scale on the horizontal axis from x to $\log_{10}(x)$, and replacing each of the data values with its logarithm.

Measures of centre and spread

Mean: 'average' - sum of all data values divided by amount of values
Median: the middle value when placed in ascending order
Mode: most occurring number
Range: the largest number subtract the smallest number
IQR: spread of middle half of data values quartile 3 - quartile 1

5 number summary

The **five number summary** includes:
- minimum (lowest number)
- quartile 1 (median of lower half)
- median
- quartile 3 (median of upper half)
- maximum (largest number)

A **boxplot** displays this.

To find outliers...
UPPER FENCE: Q3 + 1.5 x IQR
LOWER FENCE: Q1 - 1.5 x IQR

Normal Distribution

Standard Deviation: how much members from a group differ from the mean value
Normal Distribution: data distribution with a bell shape 68-95-99.7% rule.
For a normal distribution, approximately:
- 68% of the observations lie within one standard deviation of the mean
- 95% of the observations lie within two standard deviations of the mean
- 99.7% of the observations lie within 3 standard deviations of the mean

Standard score = actual score - mean / standard deviation

Population

Population: set of all eligible members of a group which we intend to study
Sample: a subset of the population

Bivariate Data

When investigating the association between two variables the **explanatory** variable (EV) is the variable we expect to explain or predict the value of the **response** variable (RV).

Which graph to use with Bivariate Data?
RV and EV are both categorical
- segmented bar chart
RV and EV are both numerical
- scatterplot
RV is numerical EV is categorical
- parallel box plot/dot plot
- back to back stem plot

Scatterplot

Things to note when interpreting
- **Direction** (positive/negative/none)
- **Outliers**
- **Form** (linear or non-linear)
- **Strength** (strong moderate or weak)

CC & CoD

Correlation Coefficient: measures strength of linear relationship (r), value is between -1 (strong positive) and 1 (strong negative), 0 is no relation

Coefficient of determination: degree to which one variable can be predicted from another linearly related variable, this is the squared value of r

Causality

- **Common response** (exercise & fitness - hot weather temperature)
- **Confounding variables** (two possible explanatory variables)
- **Coincidence** (divorce rate & margarine consumption)

Regression Line

The **least squares line** is the line that minimises the sum of the squares of the residuals. It is given by:
$$y = a + b x$$

b (slope)
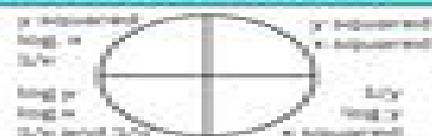$r \times$ standard deviation of y / standard deviation of x

a (y intercept)
mean value of y - b x mean value of x
INTERPOLATION: Predicting within the range of values (reliable)
EXTRAPOLATION: Predicting outside range of values (unreliable)
RESIDUAL PLOT: residual value= actual data value - predicted data value

Transformations

y squared   y squared
log x   x squared
1/x

log y   1/y
log x   log y
1/x and 1/y   x squared

Time Series data

Patterns in this data include:
- **trends** (increase/decrease)
- **cycles** (recurrent movements)
- **seasonality** (related to calendar)
- **structural change** (sudden change)
- **possible outliers** (stand out)
- **irregular fluctuations** (random)

SMOOTHING:
Can help to get rid of irregularities in data (seasonality)
- mean smoothing (calculate)
- median smoothing (read)

SEASONALISING:
actual figure = deseasonalised figure x seasonal index

Using a **trend line** fitted to a time series plot to make predictions about future values is known as trend line **forecasting**.

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